

Datasheets

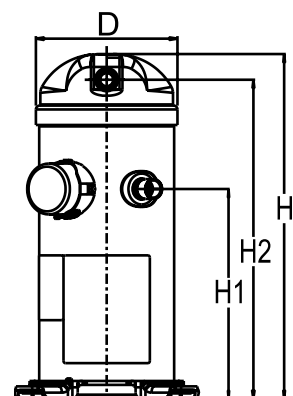
Danfoss scroll compressors **H series**



General Characteristics

Model number (on compressor nameplate)		HRM034T4LP6
Code number for Singlepack*		120U2367
Code number for Industrial pack**		120U2364
Drawing number		0XC6301B-2
Suction and discharge connections		Brazed
Suction connection		3/4 " ODF
Discharge connection		1/2 " ODF
Oil sight glass		None
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		Yes
Swept volume		46.24 cm ³ /rev
Displacement @ Nominal speed		8.1 m ³ /h @ 2900 rpm - 9.7 m ³ /h @ 3500 rpm
Net weight		30.84 kg
Oil charge		1.06 litre, Alkylbenzene - -
Maximum system test pressure Low Side / High side		- bar(g) / - bar(g)
Maximum differential test pressure		- bar
Maximum number of starts per hour		-
Refrigerant charge limit		3.63 kg
Approved refrigerants		R22

Dimensions

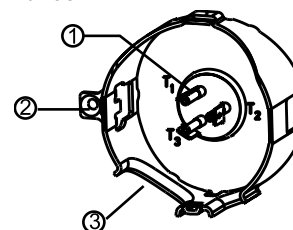


D=164.5 mm
H=413 mm
H1=250 mm
H2=379 mm
H3=- mm

Electrical Characteristics

Nominal voltage	380-415V/3/50Hz - 460V/3/60Hz
Voltage range	342-457 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance between phases 1-2 +/- 7% at 25°C	4.66 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	4.66 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	3.42 Ω
Rated Load Amps (RLA)	16.00 A
Maximum Continuous Current (MCC)	25.00 A
Locked Rotor Amps (LRA)	97.00 A
Motor protection	Internal overload protector

Terminal box



IP22

- 1: Spade connectors 1/4"
- 2: Earth connection
- 3: Power cable passage

Recommended Installation torques

Oil sight glass	52.5 Nm
Power connections / Earth connection	0 Nm / 0 Nm

Parts shipped with compressor

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

Approvals : CE certified, UL certified (file SA11565), -

*Singlepack: Compressor in cardboard box

**Industrial pack: 12 or 16 Unboxed compressors on pallet

Rotolock accessories, suction side

Code no.

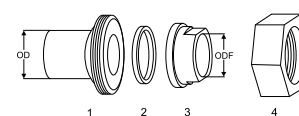
Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF)	8168006
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131

Rotolock accessories, discharge side

Code no.

Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Angle adapter, C06 (1" Rotolock, 1/2" ODF)	8168007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

Solder sleeve adapter set



- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

Rotolock accessories, sets

Code no.

Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

Oil / lubricants

Code no.

Crankcase heaters

Code no.

Belt type crankcase heater, 40 W, 230 V, CE mark, UL	120Z0055
Belt type crankcase heater, 40 W, 400 V, CE mark, UL	120Z0056

Miscellaneous accessories

Code no.

Acoustic hood	120Z5043
Discharge thermostat kit	7750009
IP54 upgrade kit	118U0056

Spare parts

Code no.

Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Mounting kit, including 1 bolt, 1 sleeve, 1 washer	120Z5031
No translation for 120Z5015	120Z5015

Performance data at 50 Hz, EN 12900 rating conditions

R22

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-25	-20	-15	-10	-5	0	5	10	15

Cooling capacity in W

30	2 952	3 447	4 176	5 124	6 276	7 618	9 135	10 811	-
35	2 766	3 256	3 965	4 878	5 981	7 258	8 695	10 278	-
40	2 528	3 024	3 725	4 615	5 680	6 905	8 276	9 777	-
45	-	2 737	3 441	4 320	5 359	6 544	7 860	9 291	-
50	-	-	3 098	3 977	5 002	6 158	7 430	8 804	-
55	-	-	-	3 571	4 593	5 731	6 972	8 299	-
60	-	-	-	-	4 117	5 249	6 468	7 761	-
65	-	-	-	-	-	4 695	5 904	7 172	-

Power input in W

30	1 623	1 615	1 610	1 602	1 585	1 553	1 500	1 421	-
35	1 832	1 803	1 785	1 772	1 758	1 737	1 704	1 654	-
40	2 079	2 021	1 982	1 956	1 938	1 921	1 900	1 869	-
45	-	2 280	2 212	2 165	2 134	2 113	2 096	2 078	-
50	-	-	2 485	2 410	2 358	2 325	2 304	2 290	-
55	-	-	-	2 700	2 620	2 567	2 534	2 517	-
60	-	-	-	-	2 930	2 849	2 797	2 768	-
65	-	-	-	-	-	3 182	3 102	3 054	-

Current consumption in A

30	3.77	3.57	3.52	3.56	3.62	3.63	3.51	3.21	-
35	4.21	3.90	3.77	3.76	3.80	3.81	3.74	3.50	-
40	4.74	4.30	4.08	4.01	4.01	4.03	3.98	3.80	-
45	-	4.80	4.47	4.32	4.28	4.28	4.25	4.12	-
50	-	-	4.95	4.71	4.62	4.59	4.56	4.46	-
55	-	-	-	5.20	5.03	4.97	4.93	4.85	-
60	-	-	-	-	5.54	5.43	5.37	5.31	-
65	-	-	-	-	-	5.98	5.89	5.83	-

Mass flow in kg/h

30	64	74	89	107	130	156	185	217	-
35	62	73	88	106	129	154	183	214	-
40	59	71	86	105	127	153	181	211	-
45	-	67	83	102	125	151	179	209	-
50	-	-	78	99	122	148	177	207	-
55	-	-	-	93	118	145	174	204	-
60	-	-	-	-	112	140	170	201	-
65	-	-	-	-	-	133	164	197	-

Coefficient of performance (C.O.P.)

30	1.82	2.13	2.59	3.20	3.96	4.91	6.09	7.61	-
35	1.51	1.81	2.22	2.75	3.40	4.18	5.10	6.22	-
40	1.22	1.50	1.88	2.36	2.93	3.60	4.36	5.23	-
45	-	1.20	1.56	2.00	2.51	3.10	3.75	4.47	-
50	-	-	1.25	1.65	2.12	2.65	3.22	3.84	-
55	-	-	-	1.32	1.75	2.23	2.75	3.30	-
60	-	-	-	-	1.41	1.84	2.31	2.80	-
65	-	-	-	-	-	1.48	1.90	2.35	-

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	7 430	W
Power input	2 304	W
Current consumption	4.56	A
Mass flow	177	kg/h
C.O.P.	3.22	

Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	67	dB(A)
With acoustic hood	62	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

All performance data +/- 5%

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Performance data at 50 Hz, ARI rating conditions

R22

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

30	3 135	3 658	4 428	5 429	6 645	8 060	9 658	11 423	-
35	2 948	3 467	4 219	5 186	6 353	7 704	9 223	10 894	-
40	2 705	3 233	3 979	4 925	6 056	7 357	8 809	10 399	-
45	-	2 939	3 692	4 630	5 738	7 000	8 400	9 922	-
50	-	-	3 340	4 283	5 382	6 619	7 978	9 444	-
55	-	-	-	3 868	4 969	6 194	7 526	8 950	-
60	-	-	-	-	4 484	5 710	7 028	8 422	-
65	-	-	-	-	-	5 148	6 465	7 843	-

Power input in W

30	1 623	1 615	1 610	1 602	1 585	1 553	1 500	1 421	-
35	1 832	1 803	1 785	1 772	1 758	1 737	1 704	1 654	-
40	2 079	2 021	1 982	1 956	1 938	1 921	1 900	1 869	-
45	-	2 280	2 212	2 165	2 134	2 113	2 096	2 078	-
50	-	-	2 485	2 410	2 358	2 325	2 304	2 290	-
55	-	-	-	2 700	2 620	2 567	2 534	2 517	-
60	-	-	-	-	2 930	2 849	2 797	2 768	-
65	-	-	-	-	-	3 182	3 102	3 054	-

Current consumption in A

30	3.77	3.57	3.52	3.56	3.62	3.63	3.51	3.21	-
35	4.21	3.90	3.77	3.76	3.80	3.81	3.74	3.50	-
40	4.74	4.30	4.08	4.01	4.01	4.03	3.98	3.80	-
45	-	4.80	4.47	4.32	4.28	4.28	4.25	4.12	-
50	-	-	4.95	4.71	4.62	4.59	4.56	4.46	-
55	-	-	-	5.20	5.03	4.97	4.93	4.85	-
60	-	-	-	-	5.54	5.43	5.37	5.31	-
65	-	-	-	-	-	5.98	5.89	5.83	-

Mass flow in kg/h

30	64	74	88	107	129	155	184	216	-
35	62	73	87	106	128	153	182	212	-
40	59	70	85	104	127	152	180	210	-
45	-	66	82	102	125	150	178	208	-
50	-	-	78	98	122	148	176	206	-
55	-	-	-	93	117	144	173	203	-
60	-	-	-	-	111	139	169	200	-
65	-	-	-	-	-	132	163	196	-

Coefficient of performance (C.O.P.)

30	1.93	2.26	2.75	3.39	4.19	5.19	6.44	8.04	-
35	1.61	1.92	2.36	2.93	3.61	4.43	5.41	6.59	-
40	1.30	1.60	2.01	2.52	3.13	3.83	4.64	5.56	-
45	-	1.29	1.67	2.14	2.69	3.31	4.01	4.77	-
50	-	-	1.34	1.78	2.28	2.85	3.46	4.12	-
55	-	-	-	1.43	1.90	2.41	2.97	3.56	-
60	-	-	-	-	1.53	2.00	2.51	3.04	-
65	-	-	-	-	-	1.62	2.08	2.57	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	8 201	W
Power input	2 497	W
Current consumption	4.86	A
Mass flow	186	kg/h
C.O.P.	3.28	

Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	67	dB(A)
With acoustic hood	62	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

All performance data +/- 5%

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Performance data at 60 Hz, EN 12900 rating conditions

R22

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-25	-20	-15	-10	-5	0	5	10	15

Cooling capacity in W

30	3 574	4 173	5 055	6 203	7 598	9 222	11 057	13 085	-
35	3 351	3 943	4 802	5 908	7 243	8 790	10 531	12 447	-
40	3 065	3 665	4 514	5 593	6 884	8 368	10 029	11 848	-
45	-	3 320	4 173	5 239	6 499	7 936	9 531	11 267	-
50	-	-	3 760	4 826	6 070	7 473	9 017	10 684	-
55	-	-	-	4 337	5 577	6 960	8 466	10 079	-
60	-	-	-	-	5 003	6 378	7 860	9 432	-
65	-	-	-	-	-	5 709	7 179	8 722	-

Power input in W

30	1 921	1 912	1 906	1 896	1 876	1 838	1 775	1 681	-
35	2 172	2 137	2 115	2 099	2 083	2 059	2 020	1 959	-
40	2 469	2 399	2 352	2 321	2 299	2 279	2 254	2 218	-
45	-	2 711	2 630	2 574	2 537	2 512	2 492	2 470	-
50	-	-	2 960	2 870	2 808	2 769	2 744	2 728	-
55	-	-	-	3 222	3 126	3 063	3 024	3 004	-
60	-	-	-	-	3 503	3 406	3 344	3 310	-
65	-	-	-	-	-	3 812	3 717	3 659	-

Current consumption in A

30	3.67	3.48	3.43	3.47	3.53	3.53	3.42	3.12	-
35	4.10	3.80	3.67	3.66	3.70	3.71	3.64	3.41	-
40	4.62	4.19	3.98	3.90	3.91	3.92	3.87	3.70	-
45	-	4.67	4.35	4.21	4.17	4.17	4.14	4.01	-
50	-	-	4.82	4.59	4.50	4.47	4.44	4.35	-
55	-	-	-	5.06	4.90	4.84	4.80	4.73	-
60	-	-	-	-	5.40	5.28	5.23	5.17	-
65	-	-	-	-	-	5.82	5.74	5.67	-

Mass flow in kg/h

30	78	90	107	130	157	189	224	263	-
35	76	88	106	129	156	187	221	259	-
40	72	85	104	127	154	185	219	256	-
45	-	81	100	124	152	183	217	253	-
50	-	-	95	120	148	180	214	251	-
55	-	-	-	113	143	176	211	248	-
60	-	-	-	-	136	170	206	245	-
65	-	-	-	-	-	162	200	239	-

Coefficient of performance (C.O.P.)

30	1.86	2.18	2.65	3.27	4.05	5.02	6.23	7.79	-
35	1.54	1.85	2.27	2.81	3.48	4.27	5.21	6.35	-
40	1.24	1.53	1.92	2.41	2.99	3.67	4.45	5.34	-
45	-	1.22	1.59	2.04	2.56	3.16	3.83	4.56	-
50	-	-	1.27	1.68	2.16	2.70	3.29	3.92	-
55	-	-	-	1.35	1.78	2.27	2.80	3.36	-
60	-	-	-	-	1.43	1.87	2.35	2.85	-
65	-	-	-	-	-	1.50	1.93	2.38	-

Nominal performance at to = 5 °C, tc = 50 °C

Cooling capacity	9 017	W
Power input	2 744	W
Current consumption	4.44	A
Mass flow	214	kg/h
C.O.P.	3.29	

Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	71	dB(A)
With acoustic hood	66	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

All performance data +/- 5%

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Performance data at 60 Hz, ARI rating conditions

R22

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-25	-20	-15	-10	-5	0	5	10	15

Cooling capacity in W

30	3 796	4 428	5 360	6 572	8 045	9 757	11 691	13 826	-
35	3 572	4 199	5 109	6 281	7 694	9 331	11 170	13 193	-
40	3 280	3 919	4 822	5 968	7 339	8 915	10 676	12 602	-
45	-	3 565	4 477	5 615	6 959	8 489	10 187	12 031	-
50	-	-	4 054	5 198	6 531	8 032	9 682	11 461	-
55	-	-	-	4 698	6 035	7 522	9 140	10 870	-
60	-	-	-	-	5 449	6 938	8 540	10 236	-
65	-	-	-	-	-	6 260	7 862	9 538	-

Power input in W

30	1 921	1 912	1 906	1 896	1 876	1 838	1 775	1 681	-
35	2 172	2 137	2 115	2 099	2 083	2 059	2 020	1 959	-
40	2 469	2 399	2 352	2 321	2 299	2 279	2 254	2 218	-
45	-	2 711	2 630	2 574	2 537	2 512	2 492	2 470	-
50	-	-	2 960	2 870	2 808	2 769	2 744	2 728	-
55	-	-	-	3 222	3 126	3 063	3 024	3 004	-
60	-	-	-	-	3 503	3 406	3 344	3 310	-
65	-	-	-	-	-	3 812	3 717	3 659	-

Current consumption in A

30	3.67	3.48	3.43	3.47	3.53	3.53	3.42	3.12	-
35	4.10	3.80	3.67	3.66	3.70	3.71	3.64	3.41	-
40	4.62	4.19	3.98	3.90	3.91	3.92	3.87	3.70	-
45	-	4.67	4.35	4.21	4.17	4.17	4.14	4.01	-
50	-	-	4.82	4.59	4.50	4.47	4.44	4.35	-
55	-	-	-	5.06	4.90	4.84	4.80	4.73	-
60	-	-	-	-	5.40	5.28	5.23	5.17	-
65	-	-	-	-	-	5.82	5.74	5.67	-

Mass flow in kg/h

30	77	89	107	129	157	188	223	261	-
35	75	88	106	128	155	186	220	257	-
40	72	85	103	126	153	184	218	254	-
45	-	81	100	123	151	182	216	252	-
50	-	-	94	119	148	179	213	250	-
55	-	-	-	113	142	175	210	247	-
60	-	-	-	-	135	169	205	243	-
65	-	-	-	-	-	161	199	238	-

Coefficient of performance (C.O.P.)

30	1.98	2.32	2.81	3.47	4.29	5.31	6.59	8.23	-
35	1.64	1.97	2.42	2.99	3.69	4.53	5.53	6.74	-
40	1.33	1.63	2.05	2.57	3.19	3.91	4.74	5.68	-
45	-	1.31	1.70	2.18	2.74	3.38	4.09	4.87	-
50	-	-	1.37	1.81	2.33	2.90	3.53	4.20	-
55	-	-	-	1.46	1.93	2.46	3.02	3.62	-
60	-	-	-	-	1.56	2.04	2.55	3.09	-
65	-	-	-	-	-	1.64	2.12	2.61	-

Nominal performance at to = 7.2 °C, tc = 54.4 °C

Cooling capacity	9 958	W
Power input	2 979	W
Current consumption	4.73	A
Mass flow	226	kg/h
C.O.P.	3.34	

Pressure switch settings

Maximum HP switch setting	29	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1.3	bar(g)

Sound power data

Sound power level	71	dB(A)
With acoustic hood	66	dB(A)

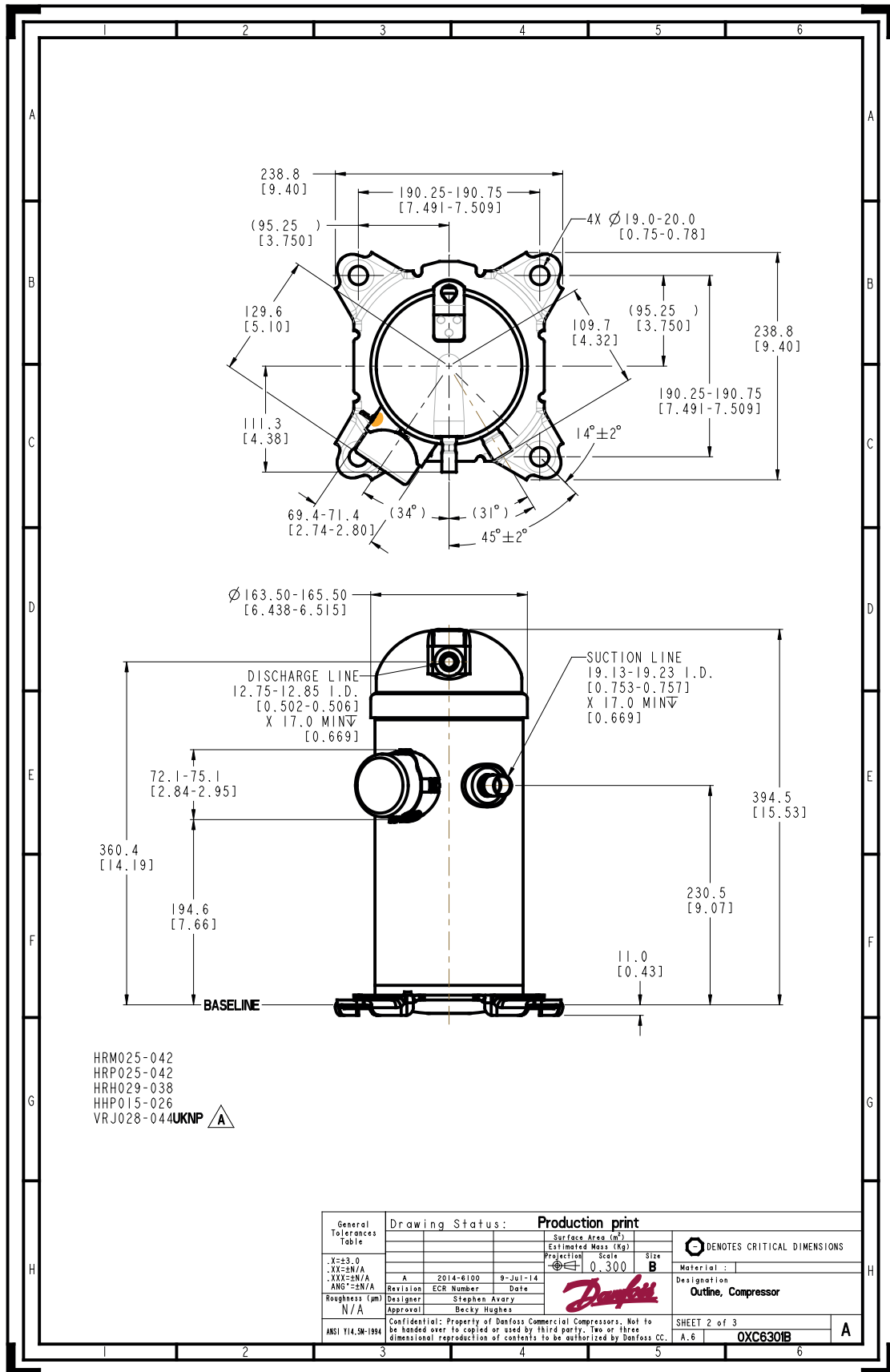
to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

All performance data +/- 5%

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.



Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alternations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss, the Danfoss logotype and Maneurop are trademarks of Danfoss A/S. All rights reserved.